



Page 1

MODULE 'VAX-11 CONVERT' (IDENT='V04-000', OPTLEVEL=3) =

BEGIN

VAX-11 CONVERT

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CONV\$CALL V04-000	VAX-11 CONVERT	L 12 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRCJCONVCALL.B32:1	Page (2)
: 31	0030 1 !++		
33	0031 1 Facility:	VAX-11 CONVERT	
35	0031 1 0032 1 Facility: 0033 1 0034 1 Abstract: 0035 1 0036 1 Contents: 0037 1	CONVERT sharable image callable routines	
37	0036 1 Contents:		
38 39 40 41	0037 1 0038 1 0039 1 0040 1	PASS_FILES PASS_OPTIONS CONVERT ADD_KEY RECCAIM RUNDOWN CONDITION_HANDLER COPY_DESC	
42 445 445 445 445 445 445 445 445 445 4	0039 1 0040 1 0041 1 0042 1 0043 1 0044 1 0045 1 0045 1 0047 1 0048 1 0049 1 0050 1 0051 1 0052 1 0053 1 Author: 0054 1 0055 1 0056 1 Modified b 0057 1 0058 1 0059 1 0060 1 0061 1 0062 1 0063 1	RUNDOWN CONDITION_HANDLER COPY_DESC	
47	0046 1 Environmen	t:	
49	0048 1	VAX/VMS Operating System	
51	0050 1 !		
32	0051 1 1		
: 55	0053 1 ! Author:	Keith B Thompson Creation date: August-1981	
56	0055 1 Modified b	y:	
58 59 60 61	0057 1 1 0058 1 1 V03-1 0059 1 1	013 JWT0185 Jim Teague 2-Jul-1984 Add late PUT RECORD call to empty the STM buffer for FTN> STM conversions.	
	0062 1 V03-0	012 RAS0264 Ron Schaefer 8-Mar-1984 Improve the condition handler so that it will not rundown everything unless there will be no return.	
65 66 67 68 69	0064 1 1 0065 1 1 0066 1 1 0067 1 1 0068 1	O11 RASO260 Ron Schaefer 2-Mar-1984 Improve performance of RASO250 by enabling open by NAM.	
65 667 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87	0069 1 V03-0	010 RAS0250 Ron Schaefer 23-Feb-1984 Add call to LIB\$FIND_FILE_END during cleanup. Check for null parameters before using them.	
74	0073 1 V03-	009 RAS0211 Ron Schaefer 8-Nov-1983 Make sure input file is closed in RUNDOWN.	
77 78	0077 1 !	008 KBT0540 Keith B. Thompson 9-Jun-1983 Fix some bugs	
80	0078 1 0079 1 V03-	007 KBT0441 Keith B. Thompson 30-Dec-1982 Add conv\$add_key routine	
83	0080 1 0081 1 0082 1 V03- 0083 1 0084 1 0085 1 V03-	006 KBT0436 Keith B. Thompson 16-Dec-1982 Use str\$analyze_sdesc to check descriptors	
86 87	0085 1 V03-	005 KBT0397 Keith B. Thompson 3-Nov-1982 Fix the check for statistics block in reclaim	

CONVSCALL V04-000	VAX-11 CONVERT	M 12 15-Sep-1984 23:41:04 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRCJCONVCALL.B32;1
: 88 : 89 : 90	0087 1 1 0088 1 0089 1	V03-004 KBT0390 Keith B. Thompson 28-Oct-1982 Add support for prolgue 3 sidrs in reclaim
92 93 94	0091 1 0092 1 0093 1	V03-003 KBT0371 Keith B. Thompson 19-Oct-1982 Copy the user strings to local storage and add flags parameter to user call interface
96 97	0095 1 0096 1	V03-002 KBT0345 Keith B. Thompson 4-Oct-1982 Use new definitions of the linkages
98 99 100 101 102	0098 1 0099 1 0100 1 0101 1 ****	V03-001 KBT0021 Keith Thompson 23-Mar-1982 Set defered write on output file

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```
N 12
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                                              VAX-11 CONVERT
                                                                                                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
CCONV.SRCJCONVCALL.B32;1
        105678901234567890123456789012345678901234567890123456789012345678901234567890
                                             PSECT
                                                                                                                         CONVSOWN
CONVSGLOBAL
CONVSPLIT
CONVSCODE
                                                                                                                                                                  (PIC),
(PIC),
(SHARÉ,PIC),
(SHARE,PIC);
                                                                                            GLOBAL
                                                                                                                   =
                                                                                             CODE
                                                                     LIBRARY 'SYS$LIBRARY:LIB.L32';
LIBRARY 'SRC$:CONVERT';
                                                                     DEFINE_ERROR_CODES;
                                                                    LINKAGE
                                                                                            L$ANALYZE_SDESC_R1
CL$COPY_DESC
                                                                                                                                                                 = JSB ( REGISTER = 0 ) : GLOBAL ( ADDRESS = 1 ),
= JSB ( REGISTER = 0 );
                                                                  EXTERNAL ROUTINE
LIBSESTABLISH
LIBSFIND FILE END
LIBSSIG TO RET
STR$ANALYZE SDESC R1
CONV$$CREATE BUFFER,
CONV$$CONVERT,
CONV$$FREE VM
CONV$$FREE TEMP VM
CONV$$FREE TEMP VM
CONV$$GET NEXT REY
CONV$$GET VM
CONV$$OPEN OUTPUT,
CONV$$PARSE DEF,
CONV$$PARSE DEF,
CONV$$PARSE DEF,
CONV$$SET KEY DESC
ADD$$CHECK KEY
ADD$$LOAD REY
ADD$$LOAD REY
ADD$$OPEN OUTPUT,
RECL$$OPEN FILE,
RECL$$ALLOCATE BUFFERS
RECL$$SCAN DATA LEVEL
CONV$$PUT_RECORD
                                                                                                                                                                                                                          GENERAL ),
GENERAL ),
GENERAL ),
                                                                                                                                                                 : ADDRESSING_MODE ( GENERAL ),
: ADDRESSING_MODE ( GENERAL ),
: ADDRESSING_MODE ( GENERAL ),
: L$ANALYZE_SDESC_R1 ADDRESSING_MODE ( GENERAL ),
                                                                                                                                                                                                              NOVALUE,
                                                                                                                                                                 : CLSFREE_VM NO
: CLSFREE_TEMP_VM
: CLSJSB_REG_9,
: CLSGET_VM,
                                                                                                                                                                 : NOVALUE,
: CL$JSB_REG_9,
: AL$CHECK_KEY,
: AL$LOAD_REY,
                                                                                                                                                                : RL$JSB_REG_9,
: RL$JSB_REG_9,
: ADDRESSING_MODE (GENERAL);
                                                                    FORWARD
                                                                                            ROUTINE
                                                                                             RUNDOWN
                                                                                                                                                                  : NOVALUE,
                                                                                            CONDITION_HANDLER, COPY_DESC
                                                                                                                                                                  : CL$COPY_DESC;
                                                                     EXTERNAL
                                                                                            CONVSAB_FLAGS
CONVSGB_CURRENT_FILE
CONVSGL_FINDFILE_CTX
                                                                                                                                                                 : BLOCK [ ,BYTE ],
                                                                                                                                                                  : LONG.
                                                                                                                                                                      VECTOR [ ,LONG ],
REF DESC_BLK,
REF DESC_BLK,
$RAB_DECC,
$XABSUM_DECL,
$XABFHC_DECL,
                                                                                            CONVSAL_IN_FILE_NAM
CONVSAR_OUT_FILE_NAM
CONVSAR_FDL_FILE_NAM
CONVSAB_EXC_RAB
CONVSAB_IN_XABSUM
CONVSAB_IN_XABFHC
```

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```
CONVSCALL
VO4-000
                                VAX-11 CONVERT
                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32:1
                                                               CONVSAB_IN_NAM
LONVSAB_IN_FAB
CONVSAB_IN_RAB
CONVSAB_OUT_XABSUM
CONVSAB_OUT_NAM
CONVSAB_OUT_FAB
CONVSAB_OUT_RAB
CONVSAB_OUT_RAB
CONVSAB_RFA_FAB
CONVSAB_RFA_RAB
                                                                                                                : $NAM_DECL,
: $FAB_DECL,
: $RAB_DECL,
: $XABSUM_DECL,
                               : $NAM_DECL,
: $FAB_DECL,
: $RAB_DECL,
: $FAB_DECL,
: $RAB_DECL,
                                                                CONVSGL_ADD_DELE_KEY
CONVSGL_STM_BUF,
CONVSGL_STM_REC_LEN,
CONVSGW_OUT_REC_SIZ
                                                                                                                 : LONG.
                                                                                                                 : SIGNED WORD;
                                               LITERAL
                                                                COUNTERS = 4;
OPTIONS = 19;
                                                                                                                    Number of counters
                                                                                                                 ! Number of options
                                               OWN
                                                                ! Exception fab for opens and closes
                                                                EXC_FAB
                                                                                                : $FAB_DECL,
                                                                ! Call sequence counter
                                                                SEQUENCE
                                                                                                : BYTE INITIAL ( 0 ).
                                                                ! The Option Flags:
                                                                                                                                                                ! All of the options ! plus one for the size
                                                                OPTION_BLOCK
                                                                                                : VECTOR [ OPTIONS + 1,LONG ],
                                                                ! The counters
                                                                COUNT_BLOCK
                                                                                                : VECTOR [ COUNTERS + 1,LONG ]; ! All of the counters
                                               BIND
                                                                                                = OPTION_BLOCK [ 0 ] : LONG,
= COUNT_BLOCK [ 0 ] : LONG;
                                                                                                                                                                ! Option count ! Counters count
                                                                OPTION_COUNT
                                                                COUNT_COUNT
                                0200
0201
0202
0203
0204
                                               GLOBAL BIND
                                                                   The order of these options define the option block for the call interface. DO NOT change them.
                                                               CONV$GL_CREATE = OPTION_BLOCK
CONV$GL_SHARE = OPTION_BLOCK
CONV$GL_FAST = OPTION_BLOCK
CONV$GL_MERGE = OPTION_BLOCK
CONV$GL_APPEND = OPTION_BLOCK
CONV$GL_SORT = OPTION_BLOCK
CONV$GL_WORK_F = OPTION_BLOCK
CONV$GL_KEY = OPTION_BLOCK
CONV$GL_PAD = OPTION_BLOCK
CONV$GL_PAD CHAR= OPTION_BLOCK
CONV$GL_PAD CHAR= OPTION_BLOCK
CONV$GL_TRUNCATE= OPTION_BLOCK
                                                                                                                                                LONG.
                                                                                                                                                                     CREATE
                                                                                                                                                LONG.
                                                                                                                                                                     SHARE
                                                                                                                                                LONG.
                                                                                                                                                                     FAST
                                                                                                                                                LONG.
                                                                                                                                                                     MERGE
                                                                                                                                                LONG.
                                                                                                                                                                     APPEND
                                                                                                                                                 LONG.
                                                                                                                                                                     SORT
                                                                                                                                                 LONG.
                                                                                                                                                                    WORK_FILES
                                                                                                                                                 LONG.
                                                                                                                                                                    PAD_RECORDS
                                                                                                                                                 LONG.
                                                                                                                                                                    Pad character
TRUNCATE
```

CONVSCALL VO4-000	VAX-11 CONVERT	C 13 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32:1
218 229 2223 2223 2223 2223 2223 2223 2230 2231 2233 2235 2236 2236 2237 2238 2237 2238 2238 2238 2238 2238	0216 1 0217 1 0218 1 0219 1 0220 1 0221 1 0222 1 0223 1 0224 1 0225 1 0226 1 0227 1 0228 1	CONV\$GL_EXIT = OPTION_BLOCK [12] : LONG, ! EXIT CONV\$GL_FIX = OPTION_BLOCK [13] : LONG, ! FIXED_WRITE CONV\$GL_FILL = OPTION_BLOCK [14] : LONG, ! FILL_BUCKETS CONV\$GL_READ_C = OPTION_BLOCK [15] : LONG, ! READ_CHECK CONV\$GL_WRITE_C = OPTION_BLOCK [16] : LONG, ! WRITE_CHECK CONV\$GL_FDL = OPTION_BLOCK [17] : LONG, ! FDL CONV\$GL_EXC = OPTION_BLOCK [18] : LONG, ! EXCEPTION CONV\$GL_PROLOG = OPTION_BLOCK [19] : LONG, ! PROLOGUE ! These are the counters CONV\$GL_FILE_COUNT = COUNT_BLOCK [1] : LONG, ! Number of files processed CONV\$GL_RECORD_COUNT = COUNT_BLOCK [2] : LONG, ! Number of Rec. Processed CONV\$GL_EXCEPT_COUNT = COUNT_BLOCK [3] : LONG, ! Number of Exception Records
233 234 235	0231 1 0232 1 ! 0233 1 !	CONVSGL_VALID_COUNT = COUNT_BLOCK [4] : LONG; ! Number of Valid Records Data etc. for reclaim
236	0234 1 OWN 0235 1 0236 1	STATISTICS_BLOCK : VECTOR [5,LONG];
239 240 241 242 243	0236 1 0237 1 GLOBAL 0238 1 0239 1 0240 1 0241 1	BIND RECL\$GL_BUCKET_COUNT = STATISTICS_BLOCK [1] : LONG, RECL\$GL_DATA_COUNT = STATISTICS_BLOCK [2] : LONG, RECL\$GL_INDEX_COUNT = STATISTICS_BLOCK [3] : LONG;

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D 13
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
 CONVSCALL
VO4-000
                               VAX-11 CONVERT PASS_FILES
                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32:1
                                                                                                                                                                                                                                                     (4)
                                              %SBTTL 'PASS_FILES'
GLOBAL ROUTINE CONV$PASS_FILES =
      Functional Description:
                                                             file name passing routine
                                                  Calling Sequence:
                                                        Initial Call:
                                                             CONV$PASS_FILES( in_file_desc, out_file_desc]
[,fdl_file_desc]
[,exc_file_desc]
                                                        Additional Calls:
                                                             CONV$PASS_FILES( in_file_desc[,flags] )
                                                  Input Parameters:
                                                                                           - Address of a file descriptor used as the input file name
- Address of a file descriptor used as the output file name
- (Optional) Address of a string descriptor to be used
as the file name of the fdl file
- (Optional) Address of a string descriptor to be used
as the file name of the exceptions file
- (Optional) Flags longword
                                                             in_file_desc
out_file_desc
fdl_file_desc
                                                             exc_file_desc
                                                             flags
                                                  Implicit Inputs:
                                                             none
                                                  Output Parameters:
                                                             none
                                                  Implicit Outputs:
                                                             none
                                                  Routine Value:
                                                             SS$ NORMAL or CONV$_ORDER CONV$_NARG CONV$_INP_FILES
                                                  Routines Called:
                                                             none
                                                  Side Effects:
                                                             none
                                                      BEGIN
```

VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1

```
CONVSCALL
VO4-000
   BUILTIN
ACTUALCOUNT,
ACTUALPARAMETER,
NULLPARAMETER;
                                     released
                                  LIBSESTABLISH( CONDITION_HANDLER );
                                    See what kind of call it is
                                   IF .SEQUENCE EQLU O
                                  THEN
                                       BEGIN
                                     LOCAL
BYTES,
VM_POINTER;
                                            RETURN CONVS_NARG:
                                       ! Clear the flags
                                       CONV$AB_FLAGS = _CLEAR;
                                       IF ACTUALCOUNT() EQLU 5
                                         Init the input RMS blocks
                                         The FAB
                                         The RAB
                                       $RAB_INIT ( RAB = CONV$AB_IN_RAB.
FAB = CONV$AB_IN_FAB.
```

Set up the condition handler to make sure files are closed and memory ! The first call needs at least two arguments and no more then 5 IF (ACTUALCOUNT() LSSU 2) OR (ACTUALCOUNT() GTRU 5) ! If the user specified a flags parameter stuff it CONV\$AB_FLAGS [CONV\$W_USER] = .ACTUALPARAMETER(5); ! Allocate memory for all of the name block buffers BYTES = 2 * (ESA_BUF_SIZ + RSA_BUF_SIZ); VM_POINTER = CONV\$\$GET_VM (.BYTES); \$FAB_INIT (FAB = CONV\$AB_IN_FAB, FAC = <BRO,GET>, FOP = <NAM,SQO>, NAM = CONV\$AB_IN_NAM, XAB = CONV\$AB_IN_XABSUM);

```
CONVSCALL
VO4-000
                          VAX-11 CONVERT PASS_FILES
                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
ECONV.SRCJCONVCALL.B32;1
                                                                         ROP = RAH );
    The name block
                                                    SNAM_INIT ( NAM = CONVSAB IN NAM,

ESA = .VM_POINTER,

ESS = ESA_BUF_SIZ,

RSA = .VM_POINTER + ESA_BUF_SIZ,

RSS = RSA_BUF_SIZ);
                                                        The xabs
                                                     $XABSUM_INIT ( XAB = CONV$AB_IN_XABSUM,
NXT = CONV$AB_IN_XABFHC,);
$XABFHC_INIT ( XAB = CONV$AB_IN_XABFHC,
                                                                              NXT = 0 ):
                                                        Get the next block of memory
                                                     VM_POINTER = .VM_POINTER + ( ESA_BUF_SIZ + RSA_BUF_SIZ );
                                                        Init the output RMS blocks
                                                        The FAB
                                                     SFAB_INIT ( FAB = CONVSAB_OUT_FAB, FAC = <BRO.GET.PUT>,
                                                                         FOP = <DFW, NAM, OFP, SQO>,
NAM = CONV$AB OUT NAM,
XAB = CONV$AB OUT XABSUM );
                                                        The RAB
                                                                        RAB = CONVSAB_OUT_RAB,
FAB = CONVSAB_OUT_FAB,
ROP = WBH );
                                                     SRAB_INIT (
                                                        The name block
                                                                        NAM = CONYSAB OUT_NAM,

ESA = .VM_POINTER,

ESS = ESA_BUF_SIZ,

RLF = CONVSAB_IN_NAM,

RSA = .VM_POINTER + ESA_BUF_SIZ,

RSS = RSA_BUF_SIZ );
                                                     SNAM_INIT (
                                                        The xab
                                                     $XABSUM_INIT ( XAB = CONV$AB_OUT_XABSUM,
                                                                              NXT = 0):
                                                        Clear the count of input files
                                                      CONVSGL_FILE_COUNT = 0;
                                                        The second argument is the output file name
```

```
VAX-11 CONVERT PASS_FILES
CONVSCALL
VO4-000
                                                                                 15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
                                        IF NULLPARAMETER(2) THEN
   RETURN CONVS_ILL_VALUE
                                        ELSE
                                             CONVSAR_OUT_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 2 ) );
                                          If there is a 3rd argument then it's the fdl file descriptor
                                         IF NOT NULLPARAMETER (3)
                                                Copy the descriptor
                                              CONVSAR_FDL_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 3 ) );
                                          If there is a 4th argument then it's the exception file descriptor
                                        IF NOT NULLPARAMETER(4)
                                         THEN
                                             BEGIN
                                             LOCAL
                                                  EXC_FILE_NAM
                                                                       : REF DESC_BLK;
                                             EXC_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 4 ) );
                                              ! Allocate memory for name block and buffers
                                             EXC_NAM_PTR = CONV$$GET_VM( NAM$K_BLN + ESA_BUF_SIZ + RSA_BUF_SIZ );
                                               Init the RMS blocks
                                               The FAB
                                                            FAB = EXC FAB.
                                             SFAB_INIT (
                                                                 = .exc file nam [
= .exc file nam [
= <nam,sqo,Tef>,
                                                                                        DSCSW_LENGTH ], DSCSA_POINTER ],
                                                             FNS
                                                                 = .EXC_NAM_PTR,
                                                            RFM = VAR, RAT = CR );
                                               The RAB
                                                            RAB = CONV$AB_EXC_RAB,

FAB = EXC_FAB,

ROP = WBH );
                                              SRAB_INIT (
                                               The name block
                                                            NAM = .EXC_NAM_PTR,

ESA = .EXC_NAM_PTR + NAMSK_BLN,

ESS = ESA_BUF_SIZ,

RSA = .EXC_NAM_PTR + NAMSK_BLN + ESA_BUF_SIZ,
                                              SNAM_INIT (
```

END:

.TITLE CONVSCALL VAX-11 CONVERT

```
CONVSCALL
                                                                                VAX-11 CONVERT
                                                                                                                                                                                                                                                                                                                                 15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
                                                                                                                                                                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page
V04-000
                                                                               PASS_FILES
                                                                                                                                                                                                                                                                                                                                                                                   .IDENT \V04-000\
                                                                                                                                                                                                                                                                                                                                                                                   .PSECT
                                                                                                                                                                                                                                                                                                                                                                                                                         _CONV$PLIT,NOWRT,NOEXE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SHR. PIC.2
                                                                                                                                                                                                                            43 58 45 2E
                                                                                                                                                                                                                                                                                                          00000 P.AAA:
                                                                                                                                                                                                                                                                                                                                                                                  .ASCII \.EXC\
                                                                                                                                                                                                                                                                                                                                                                                   .PSECT
                                                                                                                                                                                                                                                                                                                                                                                                                          _CONV$OWN,NOEXE, PIC,2
                                                                                                                                                                                                                                                                                                             00000 EXC FAB: BLKB
00050 SEQUENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                          80
                                                                                                                                                                                                                                                                                                            00054 OPTION_BLOCK:
                                                                                                                                                                                                                                                                                                                                                                                                                          80
                                                                                                                                                                                                                                                                                                             000A4 COUNT_BLOCK:
                                                                                                                                                                                                                                                                                                           000B8 STATISTICS BLOCK:
                                                                                                                                                                                                                                                                                                                                                                                   .BEKB
                                                                                                                                                                                                                                                                                                                                      OPTION COUNT=
COUNT COUNT=
CONV$GL CREATE==
CONV$GL SHARE==
CONV$GL FAST==
CONV$GL MERGE==
CONV$GL APPEND==
CONV$GL SORT==
CONV$GL SORT==
CONV$GL WORK F==
CONV$GL KEY==
CONV$GL PAD==
CONV$GL PAD==
CONV$GL PAD==
CONV$GL PAD==
CONV$GL FIX==
CONV$GL FILE=
CONV$GL FILE
CONV$GL FILE=
CONV$GL FILE
CONV$GL F
                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNT_BLOCK+8
                                                                                                                                                                                                                                                                                                                                         CONVSGL_EXCEPT_COUNT==
                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNT_BLOCK+12
                                                                                                                                                                                                                                                                                                                                         CONVSGL_VALID_COUNT==
                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNT_BLOCK+16
                                                                                                                                                                                                                                                                                                                                          RECLSGL_BUCKET_COUNT==
                                                                                                                                                                                                                                                                                                                                       RECLSGL_DATA_COUNT==STATISTICS_BLOCK+8
RECLSGL_INDEX_COUNT==
                                                                                                                                                                                                                                                                                                                                                                                                                        STATISTICS_BLOCK+12
EXC_FAB
CONVERTS_FACILITY
CONVS_FAD_MAX. CONVS_BADBLK
CONVS_BADEOGIC, CONVS_BADSORT
CONVS_CONFQUAL, CONVS_CREATEDSTM
                                                                                                                                                                                                                                                                                                                                         SRMS_PTR=
                                                                                                                                                                                                                                                                                                                                                                                  EXTRN
EXTRN
EXTRN
```

.EXTRN

```
:04 VAX-11 BLISS-32 V4.0-742
:47 CCONV.SRCJCONVCALL.B32;1

CONVS.CREA_ERR, CONVS_DELPRI
CONVS_DUP_CONVS_EXTN_ERR
CONVS_IDX_LIM, CONVS_ILL_KEY
CONVS_IDX_LIM, CONVS_ILL_KEY
CONVS_INSTIRMEM
CONVS_INSTIRMEM
CONVS_INSTIRMEM
CONVS_NOREY, CONVS_NOTIOX
CONVS_NOREY, CONVS_NOTIOX
CONVS_NOREY, CONVS_NOWILD
CONVS_NOREY, CONVS_NOWILD
CONVS_ONDER, CONVS_NOWILD
CONVS_ORDER, CONVS_PROL_WRT
CONVS_PROFER, CONVS_PROL_WRT
CONVS_PROFER, CONVS_PROL_WRT
CONVS_PROFER, CONVS_PROL_WRT
CONVS_PROFER, CONVS_SER
CONVS_UFF_BKS, CONVS_UDF_BLK
CONVS_VFC, CONVS_WRITEERR
LIBSSIG_TO_RET, STRSANALYZE_SDESC_R1
CONVSSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_BUFFER
CONVSCREATE_B
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```

CONVSCALL VO4-000

										.PSECT	_CONV\$CODE,NOWRT, SHR, PIC.2	
						0	FFC	00000		.ENTRY	CONVSPASS_FILES, Save R2,R3,R4,R5,R6,R7,R8,-;	0243
			000000006	58 59 58 00 50	0000G 0000G 0000V	CF CF CF CF O1 A8	9E99F99F93131	00002 00007 0000C 00011 00016 0001A 00021		MOVAB MOVAB MOVAB MOVAB PUSHAB CALLS MOVZBL	CONVSPASS FILES, Save R2,R3,R4,R5,R6,R7,R8,-; R9,R10,R1T SRMS PTR, R11 CONVSAB IN NAM, R10 SRMS PTR, R9 CONVSGL FILE COUNT, R8 CONDITION HANDLER #1, LIBSESTABLISH SEQUENCE, R0	0308 0312
				02		218 60 03 227	18	00027 0002A 0002D 0002F	1\$: 2\$:	BEQL BRW CMPB BGEQU BRW	118 (AP), #2 38 128	0322
				05	00006	60	31 91 1A	00032 00035 00037	38:	CMPB BGTRU CLRL	(AP), #5 2\$ CONV\$AB_FLAGS	0328
				05	***************************************	6C	91	0003B		CMPB BNEQ	(AP), #5	0328 0332
			00006	CF 50	0140	F8 CF 6C 8C 8F 000G	91 12 10 10 10 10 10 10 10 10 10 10 10 10 10	00040 00046 00048		MOVU MOVZUL PUSHL BSBU ADDL2	a20(AP), CONV\$AB_FLAGS #320, BYTES BYTES CONV\$\$GET VM	0334 0338 0340
0050	8F	00		5E 56 6E		04 50 00 69 8f	50 00 00	0004b 00050 00053 00056		ADDL2 MOVL MOVC5	CONVSSGET_VM #4, SP RO, VM_POINTER #0, (SP), #0, #80, SRMS_PTR	0350
0044	8F	00	04 16 1F 24 28	69 A9 A9 A9 A9	01000040 42 00006	8F 8F 02 CF 6A	80 90 90 9E 9E	0005D 0005E 00063 0006B 00070 00074 0007A		MOVU MOVE MOVB MOVAB MOVAB MOVCS	#20483, \$RMS PTR #16777280, \$RMS PTR+4 #66, \$RMS PTR+2Z #2, \$RMS PTR+31 CONV\$AB_IN_XABSUM, \$RMS PTR+36 CONV\$AB_IN_NAM, \$RMS PTR+40 #0, (SP), #0, #68, \$RMS_PTR	0356
0060	BF	00	0000G 0000G	CF CF CF 6E	0000G 4401 0200	8F 8F 69	80 9E 9E	00085 00088 0008F 00096 0009B		MOVW MOVZWL MOVAB MOVC5	#17409, \$RMS_PTR #512, \$RMS_PTR+4 CONV\$AB_IN_FAB, \$RMS_PTR+60 #0, (SP), #0, #96, \$RMS_PTR	0364
	ОС	00	02 04 0A 0C	6A AA AA AA 6E	6002 50 50 50	69 6A 8F A6 8F 00	80 90 9E 90 00 2C	0008F 0009B 000A2 000A3 000AB 000B2 000B7 000BB 000C0		MOVW MOVB MOVAB MOVB MOVL MOVC5	#24578, \$RMS PTR #80, \$RMS PTR+2 80(R6), \$RMS PTR+4 #80, \$RMS PTR+10 VM_POINTER, \$RMS PTR+12 #0, (SP), #0, #12, \$RMS_PTR	0369
	20	00	0000G	CF CF 6E	0000G 0016 0000G	OF OF	80 9E 2C	00003		MOVW MOVAB MOVCS	#3094, SRMS PTR CONVSAB IN XABFHC, SRMS PTR+4 #0, (SP), #0, #44, SRMS PTR	0371
0050	BF	00	00006	CF 56 6E	0000G 2C1D 00A0	8F C6	80 9E 2C	000CA 000D1 000D6 000D9 000E0 000E5		MOVAB MOVC5	#11293, \$RMS PTR 160(R6), VM POINTER #0, (SP), #0, #80, \$RMS_PTR	0375 0385

CONVSCALL VO4-000		VAX-11 CONVERT PASS_FILES				13-Sep 14-Sep	-1984 23:41 -1984 12:13	:04	Page 1
0044	8F	00	04 16 1F 24 28	68 21000060 AB 21000060 AB 00006 AB 00006 AB 00006	SF SF OFF CF OO	000EC 000ED 0000F2 90 000FA 90 000FF 9E 00103 9E 00109 2C 0010F	MOVW MOVL MOVB MOVAB MOVAB MOVAB	#20483 SRMS PTR #553648224, SRMS PTR+4 #67, SRMS PTR+22 #2, SRMS PTR+31 CONVSAB OUT XABSUM, SRMS PTR+36 CONVSAB OUT NAM, SRMS PTR+40 #0, (SP), #0, #68, SRMS_PTR	0391
0060	8F	00	00006 00006	00006 CF 4401 CF 0400 CF 6E	8F 6B	00116 B0 00119 3C 00120 9E 00127 2C 0012C	MOVU MOVZUL MOVAB MOVCS	#17409, \$RMS PTR #1024, \$RMS PTR+4 CONVSAB OUT FAB, \$RMS PTR+60 #0, (SP), #0, #96, \$RMS PTR	0400
	oc	00	0000G 0000G 0000G	0000G CF 6002 CF 50 CF 50 CF 50 CF 6E	CFFFBOFFF6F6A0FF8C3	00133 B0 00136 90 0013D 9E 00143 90 00149 D0 0014F 9E 00154 2C 00159 0015E	MOVW MOVB MOVB MOVL MOVAB MOVC5	#24578, \$RMS PTR #80, \$RMS PTR+2 80(R6), \$RMS PTR+4 #80, \$RMS PTR+10 VM POINTER, \$RMS PTR+12 CONV\$AB IN NAM, \$RMS PTR+16 #0, (SP), #0, #12, \$RMS_PTR	040
				08)110 AC F8	B0 00161 04 00168 91 0016A 1E 0016D 31 0016F 5\$:	MOVW CLRL CMPB BGEQU BRW TSTL BEQL	#3094, SRMS_PTR CONVSGL_FILE_COUNT (AP), #2 6\$ 16\$ 8(AP) 5\$	0409 0413
			0000G	CF 03	0000v 50 60	DO 0017E 91 00183	BEQL MOVL BSBW MOVL CMPB BLSSU TSTL BEQL	8(AP), RO COPY_DESC RO, CONYSAR_OUT_FILE_NAM (AP), #3 7\$ 12(AP)	0417
				50 OC O	000V 5000V 6000V 6000V 6000V	DO 0018D 30 00191 DO 00194 91 00199 7\$: 1E 0019C 31 0019E 8\$: D5 001A1 9\$:	BEQL MOVL BSBW MOVL CMPB BGEQU BRW TSTL BEQL MOVL BSBW MOVL BSBW ADDL2 MOVL MOVES	12(AP) RO COPY_DESC RO, CONVSAR_FDL_FILE_NAM (AP), #4 9\$ 10\$ 16(AP)	0426
				0	voçoc	13 001A4 D0 001A6 30 001AA D0 001AD 3C 001B0	BEQL MOVL BSBW MOVL MOVZWL	8\$ 16(AP), RO COPY DESC RO, EXC FILE_NAM #256, -(SP) CONV\$SGET_VM #4, SP RO, EXC_NAM_PTR #0, (SP), #0, #80, \$RMS_PTR	0439 0443
0050	8F	00		5E 56 6E FF58	50 8F 00006 04 50 00 C8 8F 8F 02 8F	30 00185 C0 00188 D0 00188 2C 0018E			0456
			FF 58 FF 5C FF 6E FF 76	FF58 C8 5003 C8 11000040 C8 0202	8F 02 8F	BO 001C8 DO 001CF 90 001D8 BO 001DD	MOVU MOVU MOVU	#20483, \$RMS_PTR #285212736, \$RMS_PTR+4 #2, \$RMS_PTR+22 #514, \$RMS_PTR+30	

CONVSCALL VO4-000		VAX-11 CONVERT PASS_FILES						1	9 13 5-Sep-1 4-Sep-1	984 23:41: 984 12:13:	:04 VAX-11 Bliss-32 V4.0-742 :47 [CONV.SRC]CONVCALL.832;1	Page 16
0044	8F	00	80 88 80 80	A88886E	0000	56 A7 CF 67 04 00 CF	50 50 50 50 50 50	001E8 001EB 001F7 001F8			EXC NAM PTR, \$RMS PTR+40 4(EXC_FILE NAM), \$RMS_PTR+44 P.AAA, \$RMS_PTR+48 (EXC_FILE NAM), \$RMS_PTR+52 #4, \$RMS_PTR+53 #0, (SP), #0, #68, \$RMS_PTR	0462
0060	8F	00	0000G 0000G 0000G	CF CF 6E	00006 4401 0400 FF58	8F 8F 00	90 96 20	00202 00205 0020C 00213 0021A			#17409, \$RMS PTR #1024, \$RMS PTR+4 EXC_FAB, \$RMS_PTR+60 #0, (SP), #0, #96, (EXC_NAM_PTR)	0470
			02 04 0A 0C A8	66 A6 A6 A6 A8	6002 50 00B0 50 60	8F C6 8F A6	80 90 9E 90 9E	00221 00227 00227 00232 00237 0023C	10\$:	MOVU MOVB MOVAB	#24578, (EXC_NAM_PTR) #80, 2(EXC_NAM_PTR) 176(R6), 4(EXC_NAM_PTR) #80, 10(EXC_NAM_PTR) 96(R6), 12(EXC_NAM_PTR)	0476
				01 01		27 50 1A 60	11 91 12 91	00240 00242 00245 00247	113:	MOVB MOVAB MOVB BRB CMPB BNEQ CMPB BEQL CMPB BNEQ MOVW BRB	RO, #1 13\$ (AP), #1	0482
			0000G	02 CF	08	10 6C 08 BC 10	91 12 80	0024C 0024F 00251 00257		CMPB BNEQ MOVW	14\$ (AP), #2 12\$ a8(AP), CONV\$AB_FLAGS 14\$	0491 0493
				50	00000006	8F	00	00259	128:	MOVL	"CONVS_NARG, RO	0495
				50	000000006	8F	D0 04	00261	138:	MOVL RET	#CONV\$_ORDER, RO	0502
				52 09 50	000000006	68 52 08 8F	DO D1 15	00269 0026C 0026F 00271	148:	MOVL CMPL BLEQ MOVI	CONV\$GL_FILE_COUNT, R2 R2, #9 15\$ #CONV\$_INP_FILES, R0	0506
					04	6C 05 AC 08 8F	00 95 13 05	00278 00279 0027B 0027D	158:	MOVL CMPL BLEQ MOVL RET TSTB BEQL TSTL BNEQ MOVL RET	(AP) 16\$ 4(AP)	0512
				50		08 8F	12	00280 00282	16\$:	BNEQ	#CONV\$_ILL_VALUE, RO	0514
			000060	50 F42	04 0	AC 0000V 50 68 01	04 00 30 00	00289 0028A 0028E 00291	178:	RET MOVL BSBW MOVL INCL MOVL RET	4(AP), RO COPY DESC RO, CONVSAL IN FILE_NAM[R2] CONVSGL_FILE_COUNT #1, RO	0517
				50		01	D6 D0 04	00299 00290		MOVL	#1, RO	0519 0521 0523

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```
CONVSCALL
VO4-000
                  VAX-11 CONVERT PASS_OPTIONS
                                                                                                     VAX-11 Bliss-32 V4.0-742
CCONV.SRCJCONVCALL.B32;1
                                    CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(2);
  Initialize the counter block
                                COUNT_COUNT = COUNTERS:
                                  Clear the counters (don't clear 2 (file_count) since that has been set by pass_files)
                                INCR I FROM 2 TO COUNTERS BY 1
                                    COUNT_BLOCK [ .1 ] = _CLEAR;
                                ! Initialize the option block
                                OPTION_COUNT = OPTIONS;
                                ! First clear the entire block since most of the defaults are off
                                INCR I FROM 1 TO OPTIONS BY 1
                                    OPTION_BLOCK [ .I ] = _CLEAR;
                                  Now set the defaults
                                CONVSGL_CREATE
CONVSGL_FAST
CONVSGL_SORT
CONVSGL_WORK_F
                                                       = _SET;
= _SET;
= _SET;
= Z;
                                ! If there was an argument then use it
                                IF NOT NULLPARAMETER(1)
                                THEN
                                    BEGIN
                                             USER_BLOCK
                                                             : REF VECTOR [ .LONG ]:
                                    LOCAL
                                    USER_BLOCK = ACTUALPARAMETER( 1 );
                                     ! Check the size of the block
                                       .USER_BLOCK [ 0 ] GTRU OPTIONS
                                         RETURN CONVS_BADBLK:
                                     ! If the user block specified a prologue version then set a flag to
                                      use it
                                       .USER_BLOCK [ 0 ] EQLU OPTIONS
                                         CONV$AB_FLAGS [ CONV$V_PROLOG ] = _SET;
                                      Copy the option block specified by the user into ours
                                     INCR I FROM 1 TO .USER_BLOCK [ 0 ]
```

```
0 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                    VAX-11 CONVERT PASS_OPTIONS
                                                                                                              VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32:1
   OPTION_BLOCK [ .I ] = .USER_BLOCK [ .I ]
                                        END:
                                     Check for some switch conflicts
                                     /FDL/NOCREATE
/FDL/MERGE
/FDL/APPEND
                                         or combinations of the above is wrong
                                   IF .CONVSGL_FDL AND ( ( NOT .CONVSGL_CREATE ) OR .CONVSGL_MERGE OR .CONVSGL_APPEND )
                                        RETURN CONVS_CONFQUAL;
                                     /MERGE/APPEND
                                   IF .CONVSGL_MERGE AND .CONVSGL_APPEND
                                        RETURN CONV$ CONFQUAL:
                                     Lets set the switches strait, NOTE: The order of this sets the presidence
                                                                                  of the qualifiers, do not change it
                                     The merge option is really /NOCREATE/NOFAST/NOSORT apppend is simmular
                                   IF .CONVSGL_MERGE OR .CONVSGL_APPEND
                                       BEGIN
CONVSGL_CREATE
CONVSGL_FAST
CONVSGL_SORT
                                                          = _CLEAR;
= _CLEAR;
= _CLEAR
                                     If we create a file without definition then the files are duplicate therefore index files will be in order (one input file only)
                                   IF .CONVSGL_CREATE AND ( NOT .CONVSGL_FDL ) AND
                                                                                          ( .CONV$GL_FILE_COUNT EQLU 1 )
                                        CONVSGL_SORT
                                                           = _CLEAR:
                                     If we open the input file shared we cannot sort it
                                       .CONV$GL_SHARE
                                   THEN
                                        CONVSGL_SORT
                                                            = _CLEAR;
                                     Create exc files if neceassary
                                     If the EXCEPTION Option was specified THEN Create and Connect
                                     the Exception file.
                                   IF .CONVSGL_EXC
```

```
E 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                        VAX-11 CONVERT PASS_OPTIONS
                                                                                                                                      VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                          THEN
    756
757
758
759
760
763
764
767
768
777
777
777
778
778
778
778
                                                BEGIN
                                                   Signal an OPENEXC error on failure
                                                EXC_FAB [ FAB$L_CTX ] = CONV$_OPENEXC;
                                                   Create it
                                                $CREATE ( FAB=EXC_FAB, ERR=CONV$$RMS_OPEN_ERROR );
                                                   Say that a exception file is open
                                                 CONVSAB_FLAGS [ CONVSV_EXC ] = _SET;
                                                   Connect the stream
                                                $CONNECT ( RAB=CONV$AB_EXC_RAB,ERR=CONV$$RMS_OPEN_ERROR )
                                                END:
                                          SEQUENCE = .SEQUENCE + 1:
                                          RETURN CONV$_SUCCESS
                                          END:
                                                                                                                .EXTRN
                                                                                                                            SYSSCREATE, SYSSCONNECT
                                                                                                                            CONVSPASS OPTIONS, Save R2
CONVSGL_CREATE, R2
CONDITION_HANDLER
#1, LIBSESTABLISH
SEQUENCE, #1
                                                                                                                                                                                                  0525
                                                                                                                 .ENTRY
                                                           52
                                                                     0000v
                                                                                      MOVAB
PUSHAB
                                                                                                                                                                                                  0620
                                                                                                                CALLS
                                          0000000G
                                                                                                                                                                                                  0624
                                                                                                                BEQL
MOVL
RET
                                                           50 00000000G
                                                                                                                            #CONV$_ORDER, RO
                                                                                                                                                                                                  0626
                                                           02
                                                                                                                CMPB
                                                                                                                             (AP), #2
                                                                                                    15:
                                                                                                                                                                                                  0630
                                                                                                                BLEQU
                                                                                                                                                                                                  0632
                                                           50 00000000G
                                                                                                                MOVL
                                                                                                                             "CONVS_NARG, RO
                                                                        08 BC
04
02
4C A240
04
13
01
                                                                                                                                                                                                  0636
0638
0642
0647
0649
                                                                                                                BNEQ
MOVW
MOVL
                                                                                      18000430043000
                                                                                                                            38

88(AP), CONVSAB_FLAGS

#4, COUNT_COUNT
                                                00006
                                                           CF
A2
50
                                                                                                                MOYL
                                                                                                                            COUNT_BLOCK[1]
                                                                                                                            #19, OPTION_COUNT
                                                           50
A2
50
                                                                                                                AOBLEQ
                                     F8
                                                                                                                                                                                                  0653
0657
0659
                                                   FC
                                                                                                                MOVL
                                                                                                                            OPTION BLOCK[1]
                                                                                                                MOVL
CLRL
AOBLEQ
                                                                                                    58:
                                                                                                                                  CONVSGL_CREATE
CONVSGL_FAST
CONVSGL_SORT
CONVSGL_WORK_F
                                     F8
                                                                                                                                                                                                  0663
0664
0665
0666
                                                                                                                MOVL
                                                                                                                MOVL
                                                                                                                MOVL
```

CONVSCALL VO4-000	VAX-11 CONVERT	1					1	-Sep-1	984 23:41 984 12:13	:04	VAX-11 Bliss-32 V4.0-742 [CONV.SRCJCONVCALL.B32;1	Page 22 (5)
				04	9C 3C 9C	95555	00062 00064 00066 00069		TSTB BEQL TSTL BEQL	(AP) 10\$ 4(AP) 10\$		0670
			13	04	61 08 8F	DO	0006B		MOVL	(USER	BLOCKI, #19	0676 0680
			50	000000006	8F	00	00074		MOVL	#CONV	S_BADBLK, RO	0682
		0000G	CF	40	06 8F 50 06 140	12 88 04	0007C 0007E 00084	6\$: 7\$:	BEGL MOVL RET BNEG BISB2 CLRL BRB MOVL AOBLEG BLBC BLBC BLBC BLBC BLBC BLBC BLBC BLBC BLBC CLRL		CONV\$AB_FLAGS+2	0687 0689 0693
	F6	FC A		6	140	00	00088	8\$: 9\$: 10\$:	MOVL	9\$ (USER	BLOCK)[1], OPTION_BLOCK[1]	0695
	76		50 0B 10	40	A2	E9 F9	00092	108:	BLBC BLBC	CONVS	GL_FDL, 11\$	0707
			0C 08 10	0C 10 0C 10	61 62 62 62 62 62 62 62 62 62 62 62 62 62	0599889904 0599889904	0008E 00092 00096 00099 0009D 000A1 000A5	115:	BLBS BLBS BLBC	CONVS	BLOCK)[I], OPTION_BLOCK[I] BLOCK), I, 8\$ GL_FDL, 11\$ GL_CREATE, 12\$ GL_MERGE, 12\$ GL_APPEND, 12\$ GL_APPEND, 12\$ GL_APPEND, 13\$ JS_CONFQUAL, RO	0708 0709 0715
			08 50	000000006	AZ 8F	E9	000A5	125:	BLBC	#CONV	GGL APPEND, 138 'S_CONFQUAL, RO	0717
			04 08	0C 10	AZ		000B0 000B1 000B5	138: 148: 158:	BLBS	CONVS	GL_MERGE, 15\$	0724
			00	08	62 A2	D4 D4	00089 00088	158:	CLRL CLRL CLRL	CONV	GL_CREATE GL_FAST	0727 0728 0729 0735
			0D 09 01	40	AA222222222222222222222222222222222222	E894449812	000B1 000B5 000B9 000BB 000BE 000C1 000C4	16\$:	BLBC	CONVS CONVS	GGL_MERGE, 15\$ GGL_APPEND, 16\$ GGL_CREATE GGL_FAST GGL_SORT GGL_CREATE, 17\$ GGL_FDL, 17\$ GGL_FILE_COUNT, #1	0735 0736
			03	14	42 42 42	D4 E9	000CE 000D1	178:	CMPL BNEQ CLRL BLBC	CONVS	GGL_SORT	0738 0742
		co	82	00000000 00000	AZ BF CF	D4 E9 D0 9F	00005 00008 0000C 000E4 000E8	18\$:	CLRL BLBC MOVL PUSHAB PUSHAB	CONVS CONVS	GL_SORT GGL_EXC, 19\$ \$ OPENEXC, EXC FAB+24 \$RMS_OPEN_ERROR AB SYS\$CREATE	0744 0751 0757 0761
	00	9000000G	OO CF	0000G	02 04 CF	9F FB 88 9F	000F2		CALLS BISB2 PUSHAB	#2, s #4, CONVS	YSSCREATE ONVSAB FLAGS+2 SRMS OPEN ERROR AB EXC RAB YSSCONNECT NCE	0765 0769
	00	0000000G	00		02	9f fB	000FB 000FF 00106	106.	PUSHAB CALLS INCB	NS S	AB EXC RAB YSSCONRECT	0778
			50	F8	01	96 00 04	00109 0010C	198:	MOVL	#1. R	0	0775 0777

ONVSCALL V	-11 CONVERT	15-Sep-1984 23:41:04 14-Sep-1984 12:13:47	VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCOMVCALL.B32;1
783 0 784 0 785 0 786 0 787 0 788 0 789 0	### Functional Description: Calling Sequence: CONV\$CONVERT([county Input Parameters: counter_block - () Structure of county counter_block: Implicit Inputs: none Output Parameters: none Implicit Outputs: none Routine Value: none Routines called: Side Effects: none BEGIN BUILTIN ACTUALCOUNT, ACTUALPARAMETER, NULLPARAMETER;	= er_block][,flags]) Optional) Address of counter block	

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```
H 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONV$CALL
                 VAX-11 CONVERT CONVERT
  STATUS:
                               Set up condition handler
                             LIBSESTABLISH ( CONDITION_HANDLER );
                               Check the order of the call
                              IF .SEQUENCE NEQ 2
                                 RETURN CONVS_ORDER
                             ELSE
                                  SEQUENCE = .SEQUENCE + 1:
                               Check the number of arguments
                              IF ACTUALCOUNT() GTRU 2
                                 RETURN CONVS_NARG;
                               Were there user flags?
                              IF ACTUALCOUNT() EQLU 2
                                 CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(2);
                               Clear some variables
                             CONV$GB_CURRENT_FILE = 0;
                               If definition then parse it
                             IF . CONVSGL_FDL
                                 STATUS = CONV$$PARSE_DEF()
                             ELSE
                                 STATUS = CONVS_SUCCESS;
                              ! If all is well continue
                             IF .STATUS
                                   Try to Open an Input File
                                  IF STATUS = CONV$$OPEN_INPUT()
                                  THEN
                                      BEGIN
                                      ! Try to Open an Output file
                                      STATUS = CONV$$OPEN_OUTPUT();
                                      Loop untill error or end
                                      WHILE .STATUS
```

```
CONVSCALL
VO4-000
                VAX-11 CONVERT CONVERT
                                         BEGIN
  Dynamicly Allocate the Record Buffer
                                         IF NOT ( STATUS = CONV$$CREATE_BUFFER() )
                                             EXITLOOP:
                                           Convert The File
                                         IF NOT ( STATUS = CONV$$CONVERT() )
                                             EXITLOOP:
                                         CONVSGB_CURRENT_FILE = .CONVSGB_CURRENT_FILE + 1;
                                         IF .CONVSGB_CURRENT_FILE GEQU .CONVSGL_FILE_COUNT
                                             EXITLOOP
                                         ELSE
                                             STATUS = CONV$$OPEN_INPUT()
                                         END
                                     END:
                               Close all Open Files and deallocate memory
                             RUNDOWN():
                              If we got a counter block copy the values into it
                             IF NOT NULLPARAMETER(1)
THEN
                                 BEGIN
                                 LOCAL
                                        USER_BLOCK : REF VECTOR [ ,LONG ]:
                                 USER_BLOCK = ACTUALPARAMETER(1);
                                  Check the size of the block
                                 IF .USER_BLOCK [ 0 ] GTRU COUNTERS THEN
                                STATUS = CONVS_BADBLK
                                       Stuff the counts
                                     INCR I FROM 1 TO .USER_BLOCK [ 0 ] BY 1
                                         USER_BLOCK [ .1 ] = .COUNT_BLOCK [ .1 ]
                                 END;
                             SEQUENCE = 0:
```

CONVSCALL VO4-000	VAX-11 CONV	ERT		J 14 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32:1	Page 26 (6)
954 955 956	0949 2 0950 2 0951 1	RETURN .STATEND:	rus		
		000000006	00000 000000	O01C 00000 CF 9E 00002 CF 9E 00007 CF 9F 0000C O1 FB 00010 O3 91 00017 O8 13 0001A BF D0 0001C O4 00023 O5 96 00024 O6 91 00026 O6 91 00026 O7 00028 O8 18 00029 O7 00028 O	0779 0839 0843 0845 0845 0851
			CF 08 OA 48 CF 52	8f 00 0002B	0857 0859 0863 0867 0869
53 A	5 64	0000G 0000G 0000G	52 52 52 52 52 52 52 52 52 52 52 52 52 5	00 FB 0005C	0871 0875 0880 0886 0890 0896 0902
			04 51 04	07 1E 00085 00 FB 00087 D3 11 0008C BRB 6\$ 00 FB 0008E 7\$: CALLS #0, RUNDOWN 6C 95 00093 25 13 00095 AC D5 00097 20 13 0009A AC D0 0009C AC D0 0009C BEQL 11\$ AC D0 0009C MOVL 4(AP), USER BLOCK 61 D1 000A0 D9 1B 000A3 BLEQU B\$	0912 0920 0924 0930 0934

CONVSCALL VO4-000	VAX-11 CONVERT			1	K 14 5-Sep-1984 23:4 4-Sep-1984 12:1	1:04 VAX-11 Bliss-32 V4.0-742 3:47 [CONV.SRC]CONVCALL.B32;1	Page 27 (6)
	F6	52 0 6140 50 50	000000006 8F 0E 50 06 54 A340 61 63 52	DO 000A5 11 000AC D4 000AE 11 000B0 D0 000B2 F3 000B8 94 000BC D0 000BE 04 000C1	88: MOVL BRB CLRL BRB 98: MOVL 108: AOBLEQ CLRB MOVL RET	#CONVS_BADBLK, STATUS 118 108 COUNT_BLOCK[1], (USER_BLOCK)[1] (USER_BLOCK), 1, 98 SEQUENCE STATUS, RO	0936 0941 0943 0947 0949 0951
; Routine Si	ze: 194 bytes,	Routine Base	: _CONVSCODE	+ 03AA			

```
CONVSCALL
VO4-000
                     VAX-11 CONVERT ADD_KEY
                                                                                                                    VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                                  LOCAL
BYTES
VM POINTER.
STATUS;
  Set up the exit handler
                                     LIBSESTABLISH ( CONDITION_HANDLER );
                                       Check to make sure convert is not being called
                                     IF .SEQUENCE NEQU O
                                          RETURN CONVS_ORDER:
                                     ! This call needs at least three arguments and no more then 5
                                     IF ( ACTUALCOUNT() LSSU 3 ) OR ( ACTUALCOUNT() GTRU 5 )
                                     THEN
                                          RETURN CONVS_NARG:
                                     ! Clear the flags
                                     CONVSAB_FLAGS = _CLEAR;
                                      If the user specified a flags parameter stuff it
                                     IF ACTUALCOUNT() EQLU 5
                                     THEN
                                          CONVSAB_FLAGS [ CONVSW_USER ] = .ACTUALPARAMETER(5);
                                       Allocate memory for all of the name block buffers
                                    BYTES = ESA_BUF_SIZ + RSA_BUF_SIZ;
                    1044
1045
1046
1047
1048
1050
1051
1052
1053
                                    VM_POINTER = CONV$$GET_VM ( .BYTES );
                                       Init the output RMS blocks
                                       The FAB
                                    $FAB_INIT ( FAB = CONV$AB_OUT_FAB,

FAC = <BRO.GET,PUT>,

FOP = <DFW,NAM,OFP,$QO>,

NAM = CONV$AB_OUT_NAM,

XAB = CONV$AB_OUT_XAB$UM );
                                       The RAB
                                                    RAB = CONVSAB_OUT_RAB,
FAB = CONVSAB_OUT_FAB,
ROP = <BIO, WBR> );
                                     $RAB_INIT (
                                       The name block
                                     SNAM_INIT ( NAM = CONVSAB_OUT_NAM,
ESA = .VM_POINTER,
```

Page

```
N 14
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                  VAX-11 CONVERT ADD_KEY
                                                                                                    VAX-11 Bliss-32 V4.0-742
CCONV.SRCJCONVCALL.B32;1
                                             ESS = ESA_BUF_SIZ,
RSA = .VM_POINTER + ESA_BUF_SIZ,
RSS = RSA_BUF_SIZ);
 The 1st argument is the output file name
                                IF NULLPARAMETER(1)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONVSAR_OUT_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 1 ) );
                                  The 2nd argument is the fdl file descriptor
                                IF NULLPARAMETER(2)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONV$AR_FDL_FILE_NAM = COPY_DESC( ACTUALPARAMETER( 2 ) );
                                 The 3rd argument is the key of ref. to add
                                IF NULLPARAMETER (3)
                                    RETURN CONVS_ILL_VALUE
                               ELSE
                                    CONVSGL_ADD_DELE_KEY = .ACTUALPARAMETER( 3 );
                                 Open the output file
                               IF STATUS = ADD$$OPEN_OUTPUT()
THEN
                                      Check the input key and fdl key and make index desc for it
                                    IF STATUS = ADD$$CHECK_KEY()
THEN
                                          Load the key into the file
                                         STATUS = ADD$$LOAD_KEY():
                                 Close the file and deallocate memory
                               RUNDOWN():
                                 If there was a 4th parameter stuff it with the statistics block addr.
                               IF NOT NULLPARAMETER(4)
THEN
                                    BEGIN
                                    LOCAL
                                         USER_BLOCK : REF VECTOR [ LONG ];
                                      Get the user block
```

CONVSCALL VO4-000	VAX-11 COM	IVERT				1	8 15 5-Sep- 4-Sep-	1984 23:41 1984 12:13	:04 VAX-11 BLiss-32 V4.0- ECONV.SRCJCONVCALL.B3	742 Page 3 2;1 (7
: 1129	1123 3	USER	BLOCK = A	TUALPAR	AMETE		·			
1130	1125	! Che	ck to see	if ther	e rea	ally is	one			
1133	1127 3	İF .U	SER_BLOCK	NEQ 0						
1133	1129 4	THEN	EGIN							
1137	1131 4	11	NCR I FROM	1 1 10 .	USER.	BLOCK	[0]	BY 1		
1139 1140	1133 4		USER_BI	. OCK [.	1]:	.STAT	ISTICS	BLOCK [.	1]	
	1135 4	E	ND							
1143 1144	1137 2 1138 2 1139 2	END;								
1141 1142 1143 1144 1145 1146	1140 2	RETURN .S	TATUS							
; 1147	1141 1	END;								
		000000006	00	6060	F 96 F 96 F 96 F 96 F 96 C 91 F 04 C 91 F 05 F 96 F 96 F 96 F 96 F 96 F 96 F 96 F 96	00015 00010 00020 00029 00029 00020 00025 00032		MOVAB MOVAB MOVAB PUSHAB CALLS TSTB BEQL MOVL RET CMPB BLSSU CMPB BLEQU MOVL RET	CONVSADD_KEY, Save R2,R3,R% R10,R11 SRMS PTR, R8 CONVSAB OUT NAM, R7 SRMS PTR, R6 CONDITION HANDLER W1, LIBSESTABLISH SEQUENCE 18 WCONVS_ORDER, R0 (AP), W3 28 (AP), W5 38 WCONVS_NARG, R0	101 102 102 102
			05	00006 6	F 04 C 91 6 13	0003C	38:	CLRL	CONVSAB FLAGS	103 103
		00006	CF 50	14 B A0 8	6 12 C BC F 9/	00043 00045 00048 0004F	48:	CLRL CMPB BNEQ MOVW MOVZBL PUSHL BSBW ADDL2	20(AP), CONVSAB_FLAGS #160, BYTES BYTES	103 104 104
0050 8)F (00	SE 58 6E	000 0 5	0 Dt 0G 30 4 Ct 0 Dt	00051 00054 00057		BSBW ADDL2 MOVL MOVC5	A\$ a20(AP), CONV\$AB_FLAGS #160, BYTES BYTES CONV\$\$GET_VM #4, SP R0, VM_POINTER #0, (SP), #0, #80, \$RMS_PTR	105
		04 16 1f 24	66 A6 A6 A6 A6	14 B A0 8 0000 5003 8 0060 8	F B() F D() F 9() F 9E	00061 00067 00067 00067 00074		MOVU MOVL MOVB MOVB MOVAB	#20483 \$RMS PTR #553648224, \$RMS_PTR+4 #67, \$RMS_PTR+22 #2, \$RMS_PTR+31 CONV\$AB_OUT_XABSUM, \$RMS_PT	

CONVSCALL VO4-000		VAX-11 CONVERT					C 15 15-Sep-198 14-Sep-198	23:41	:04 VAX-11 Bliss-32 V4.0-742 P :47 [CONV.SRC]CONVCALL.B32;1	age 32
0044	8F	00	28	A6 6E	6	91	0007E 00082 00089	MOVAB MOVC5	CONV\$AB_OUT_NAM, \$RMS_PTR+40 #0, (SP), #0, #68, \$RMS_PTR	: 1060
0060	8F	00	04 30	68 A8 A8 6E	4401 8 0000 8	B 3 9	0008A 0008F 00095 00099	MOVW MOVZWL MOVAB MOVCS	#17409, \$RMS_PTR #3072, \$RMS_PTR+4 CONV\$AB_OUT_FAB, \$RMS_PTR+60 #0, (SPJ, #0, #96, \$RMS_PTR	1068
			02 04 0A 0C	67 A7 A7 A7 A7	6002 8 50 8 50 8 50 8 50 8	9(9(9)	000A0 000A6 000A8 000B0 000B5 000B9	MOVW MOVB MOVB MOVL TSTB BEQL TSTL BEQL MOVL BSBW MOVL CMPB BLSSU TSTL	#24578, \$RMS_PTR #80, \$RMS_PTR+2 80(R11), \$RMS_PTR+4 #80, \$RMS_PTR+10 VM_POINTER, \$RMS_PTR+12 (AP) 5\$	1072
			00006	50 CF 02	04 A 000 56	V 30	000C0 000C2 000C6 000C9 000CE 000D1 000D3	BEQL MOVL BSBW MOVL CMPB BLSSU	4(AP), RO COPY_DESC RO, CONVSAR_OUT_FILE_NAM (AP), #2 5\$ 8(AP)	1076 1080
			00006	50 CF 03	08 A 08 A 0000	D D D D D D D	000D3 000D6 000D8 000DF 000E4 000E7	TSTL BEQL MOVL BSBW MOVL CMPB BLSSU	8(AP) 5\$ 8(AP), RO COPY_DESC RO, CONVSAR_FDL_FILE_NAM (AP), #3 5\$	1084
				50 0	OC A	D 1	000EC	BNEQ MOVL	12(AP) 6\$ #CONV\$_ILL_VALUE, RO	1090
			0000G 0000G	CF CF 52 OF	OC B	D(0	000F5	RET MOVL CALLS MOVL BLBC BSBW	al2(AP), CONVSGL_ADD_DELE_KEY #0, ADD\$SOPEN_OUTPUT R0, STATUS STATUS, 7\$ ADD\$\$CHECK_KEY	1092 1096
				52	000	G 30	00107 0010A 0010D	SBW MOVL BLBC	ADD\$\$CHECK_KEY RO, STATUS STATUS, 7\$ ADD\$\$LOAD_KEY	1101
			0000v	52 CF 04	000 50 60 10 10	FE	00110 00113 00116 7\$: 0011B	MOVE BLBC BSBW MOVE CALLS CMPB BLSSU FSTL	ADDSSLOAD KEY RO, STATUS WO, RUNDOWN (AP), #4 101 16(AP)	11106 11110 11114
				51	10 A 10 A 00 5	D 1 1	00125 00129 00128	MOVL BEQL CLRL	16(AP) 10\$ 16(AP), USER_BLOCK 10\$ I	1123 1127 1131
		F5	6	140 50 50	0000°CF4		0012D 0012F 85: 00136 95:	BRB MOVL AOBLEQ MOVL RET	STATISTICS BLOCK[]], (USER_BLOCK)[]] (USER_BLOCK), I, 8\$ STATUS, RO	1133 1139 1141

; Routine Size: 318 bytes, Routine Base: _CONV\$CODE + 046C

CONV\$CALL V04-000 VAX-11 CONVERT ADD_KEY

D 15 15-Sep-1984 23:41:04 14-Sep-1984 12:13:47

VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1

Page 33 (7)

```
VAX-11 CONVERT
CONVSCALL
VO4-000
                                     THEN
                                          Allocate bucket buffers and the context block
                                         if NOT ( STATUS = RECL$$ALLOCATE_BUFFERS() )
                                            EXITLOOP:
                                          Scan the data level buckets and remove the empties
                                         if not ( status = reclssscan_data_level() }
                                            EXITLOOP:
                                          Deallocate memory used foe the bucket buffers
                                         CONV$$FREE_TEMP_VM()
                                UNTIL NOT CONVSSGET_NEXT_KEY();
                              Close the file and deallocate memory
                            RUNDOWN();
                             ! If there was a second parameter stuff it with the statistics block addr.
                            IF NOT NULLPARAMETER(2)
                                BEGIN
                                LOCAL
                                    USER_BLOCK : REF VECTOR [ ,LONG ];
                                  Get the user block
                                USER_BLOCK = ACTUALPARAMETER(2);
                                  Check to see if there really is one
                                IF .USER_BLOCK NEQ O
                                    BEGIN
                                     ! Stuff the total bucket count
                                    STATISTICS_BLOCK [ 4 ] = .RECL$GL_DATA_COUNT + .RECL$GL_INDEX_COUNT;
                                    INCR I FROM 1 TO .USER_BLOCK [ 0 ] BY 1
                                        USER_BLOCK [ .1 ] = .STATISTICS_BLOCK [ .1 ]
                                    END
                                END:
```

CONVSCALL V04-000	VAX-11 CORECLAIM	ONVERT
1320 1321	1313 2	RETURN .STATUS
1323	1316	END;

H 15 15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRCJCONVCALL.B32:1

Page 37 (8)

			0	FFC	00000		.ENTRY	CONV\$RECLAIM, Save R2,R3,R4,R5,R6,R7,R8,R9,-; R10,R11	1143
000000006	53	0000° 0000° 80	01 A3 08	9E 9F 9F 95 130 045 131	00002 00007 0000B 00012 00015		MOVAB PUSHAB CALLS TSTB BEQL	RECLIGITION RECURS COUNT, R3 CONDITION HANDLER #1, LIBSESTABLISH SEQUENCE	1207 1211
	50	00000000	8F	00	00017 0001E 0001F		MOVL	#CONV\$_ORDER, RO	1213
	03		6C 05 6C 08 8F	95 13 91 18	0001F 00021 00023 00026 00028	18:	MOVL RET TSTB BEQL CMPB BLEQU	(AP) 2\$ (AP), #3 3\$	1217
	50	00000000	8F	18 00 04	00028 0002F	28:	RET	#CONV\$_NARG, RO	1219
	03	0000G F8	63 60	74 74 91 12 80 93	00030 00034 00037 00039 0003C	38:	CLRL	CONV\$AB_FLAGS RECL\$GL_BUCKET_COUNT RECL\$GL_INDEX_COUNT (AP), #3	1223 1224 1226 1230
00006	CF	0C 04	63 63 60 60 60 60 60 60 60 60 60 60 60 60 60	80 95 13	0003E 00044 00046 00048	48:	CLRL CMPB BNEQ MOVW TSTB BEQL TSTL BNEQ	4\$ a12(AP), CONV\$AB_FLAGS (AP) 5\$ 4(AP)	1232 1236
	50	000000006	08 8F	05 12 00 04	0004B	58:	BNEQ MOVL RET	6\$ "CONVS_ILL_VALUE, RO	1238
00006	CF 5A	04	AC 01 50 7E	FB E9	00055 00058 0005D	68:	MOVL RET PUSHL CALLS BLBC CLRL BSBW ADDL2	4(AP) #1, RECL\$SOPEN_FILE STATUS, 13\$ -(SP)	1240
	SE 52 20 AB		00006 04 50 52	CO	00068		BSBW ADDL2 MOVL BLBC BBS BSBW	#4. SP	1244
15 10	AB		00006	E9 50 50	0006B 0006E 00073	7\$:	885	STATUS, 9\$ #4, 16(KEY_DESC), 8\$ RECL\$\$ALLOCATE_BUFFERS	1255 1261
	52		50	DQ	00076			RO, STATUS	1201
	12		00006	30	00079 0007C		BSBA	RECLSSCAN_DATA_LEVEL	1267
	52 09		53	DO	0007f 00082 00085 00088 0008B 0008E 00093	••	BLBC BSBW MOVL BLBC BSBW BSBW BLBS CALLS	STATUS, 98 RECL\$\$SCAN_DATA_LEVEL RO, STATUS STATUS, 98 CONV\$\$FREE TEMP VM CONV\$\$GET_NEXT_REV RO, 78 #0, RUNDOWN (AP), #2 128	1273 1277
	EO		50	E8	0008B	88:	BLBS	RO, 78	
0000V	CF O2		00006 00006 50 00 60	FB 91 1F	0008£ 00093 00096	98:	CALLS CMPB BLSSU	MO, RUNDOWN (AP), M2 128	1281 1285

CONVSCALL V04-000	VAX-11 CONVERT		15-Sep-1984 23:41:04								
	04 A3	51 FC A3	08 AC D\$ 00098 TSTL 8(AP) 1A 13 0009B BEQL 92\$ 08 AC DO 0009D MOVL 8:AP), USER_BLOCK 14 13 000A1 BEQL 12\$ 63 C1 000A3 ADDL3 RECL\$GL_INDEX_COUNT, RECL\$GL_DATA_COUNT, -	1294 1298 1304							
:	f6	6140 50 50	50 D4 000A9 CLRL I 06 11 000AB BRB 11\$ F4 A340 D0 000AD 10\$: MOVL STATISTICS BLOCK[I], (USER_BLOCK)[I] 61 F3 000B3 11\$: AOBLEQ (USER_BLOCK), I, 10\$ 52 D0 000B7 12\$: MOVL STATUS, RO 04 000BA 13\$: RET	1306 1308 1314 1316							
; Routine Size	: 187 bytes,	Routine Base:	_CONV\$CODE + 05AA								

```
K 15
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                          VAX-11 CONVERT
                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
CCONV.SRCJCONVCALL.B32:1
                                                                                                                                                                                                                        (9)
                           RUNDOWN
   1383
1384
1385
1386
1388
1389
1391
1393
1396
1396
1403
1404
1405
1406
1406
1408
                                                    .CONVSAB_FLAGS [ CONVSV_OUT ]
                                               THEN
                                                     BEGIN
                                                         If we're doing a FTN --> STM conversion, then we
                                                                  need to flush our STM buffer now.
                                                          .CONVSAB_FLAGS [ CONVSV_MAPFTN ] EQL CONVSC_FTNSTM
                                                     THEN
                                                            BEGIN
                                                            CONVSGW_OUT_REC_SIZ = .CONVSGL_STM_REC_LEN;
CONVSAB_OUT_RAB_[RAB$L_RBF] = .CONVSGL_STM_BUF;
CONVSSPUT_RECORD ();
                                                     END;
$DISCONNECT( RAB=CONV$AB_OUT_RAB );
                                                     SCLOSE ( FAB=CONVSAB_OUT_FAB T;
                                                  If an Exception file was used close it
                                                    .CONV$AB_FLAGS [ CONV$V_EXC ]
                                               THEN
                                                     $DISCONNECT( RAB=CONV$AB_EXC_RAB );
                                                     $CLOSE( FAB=EXC_FAB )
  1409
1410
1411
1412
1413
1414
1415
1416
                                                 Deallocate any loose memory floating around
                                               CONV$$FREE_TEMP_VM():
                                               CONVSSFREE_VM();
                                              RETURN
                                              END:
                                                                                                                            .EXTRN
                                                                                                                                         SYS$DISCONNECT, SYS$CLOSE
                                                                                                   00000
00002
00007
0000E
00015
00019
0001D
00024
00029
00032
                                                                                                                                         Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
CONV$AB_FLAGS+2, R4
SYS$CLOSE, R3
SYS$DISCONNECT, R2
                                                                                                                                                                                                                     1318
                                                                                                              RUNDOWN: . WORD
                                                                                               9E
9E
9E
9F
FB
                                                                                                                            MOVAB
                                                                     00000000G
00000000G
0000G
                                                                                        00
00
CF
CF
01
00
07
                                                                                                                            MOVAB
                                                                                                                            MOVAB
                                                                                                                                       CONVSGL FINDFILE CTX
#1, LIBSFIND FILE END
#0, CONVSSEND OF FILE
#1, CONVSAB FEAGS+2, 28
#7, #2, CONVSAB_FLAGS+2, #2
                                                                                                                                                                                                                      1361
1365
                                                                                                                            CLRB
                                                                                                                            PUSHAB
                                              900000000
90000
                                                                 00
CF
64
02
                                                                                                                            CALLS
                                                                                                                            CALLS
                                                                                                                            BBC
                                                                                               ED
12
                  02
                                                                                                                            CMPZV
                                                                                                                            BNEQ
                                                                                                                                                                                                                      1385
1386
1387
1389
                                              00000
00000
00000006
                                                                                               BC
DO
FB
                                                                                                                                         CONVSGL_STM_REC_LEN, CONVSGW_OUT_REC_SIZ
CONVSGL_STM_BUF, CONVSAB_OUT_RAB+40
#0, CONVSSPUT_RECORD
                                                                             0000G
                                                                                                                            MOVW
                                                                                                                            MOVL
                                                                                                                            CALLS
                                                                             0000G
                                                                                                                            PUSHAB
                                                                                                                                         CONVSAB OUT RAB
                                                                                                                                         #1, SYSSDISCONNECT
                                                                                                                            CALLS
```

CONVSCALL VO4-000	VAX-11 CONVERT		15-Sep-1984 23:41:04 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:13:47 [CONV.SRC]CONVCALL.B32:1	Page 41 (9)
	0€	63 64 62 63	0000G CF 9F 00050 01 FB 00054 02 E1 00057 28: BBC	1396 1398 1398 1399 1404 1405
; Routine Si	ze: 112 bytes,	Routine Base:	_CONV\$CODE + 0665	

CONVSCALL VO4-000	VAX-11 CONVERT CONDITION_HANDLER		N 15 15-Se 14-Se	p-1984 23:41:04 p-1984 12:13:47	VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1	Page 43 (10)
: 1476 : 1477 : 1478 : 1480 : 1481 : 1482 : 1483 : 1484 : 1485 : 1486 : 1487 : 1488 : 1490 : 1491 : 1492 : 1493 : 1494 : 1495 : 1496 : 1497 : 1498 : 1499	1467 2 END; 1468 2 ! Do we 1470 2 ! Do we 1471 2 if CONV 1472 3 If CONV 1473 3 BEGI 1474 3 If 1475 3 THEN 1476 3 END 1477 1478 2 ELSE 1479 2 If 1481 2 THEN 1482 2 ELSE 1483 2 ELSE 1484 2 ! If a s 1487 2 ! If a s	CONDITION_CODE RUNDOWN(); CONDITION_CODE CONDITION_CODE RETURN SS\$_CONT	r just return V\$V_SIGNAL] [STS\$V_SEVERITY] [STS\$V_SEVERITY] INUE (.SIGNAL_VECTOR,.	EQL STS\$K_SEVER	RE	
			000C 00000 CON	DITION_HANDLER:		
04 01 03	00000920 52 FF6C 52 52	03 03 50	AC DO 00002 A3 DO 00006 52 D1 0000A OC 13 00011	MORD SAY MOVL SIG MOVL 4(F CMPL COM BEQL 15 BLBC COM CMPZV WO BNEQ 55 CALLS WO BRB 55 CMPZV WO BEQL 35 CMPZV WO BEQL 35 CMPZV WO BEQL 35 CMPZV WO BREQ 45 MOVL W1 RET PUSHL MEG	REAL VECTOR, REAL VECTOR LIBSSIG_TO_RET 1. REAL VECTOR LIBSSIG_TO_RET 1. REAL VECTOR LIBSSIG_TO_RET 1. REAL VECTOR LIBSSIG_TO_RET	1411 1458 1462 1471 1474 1476 1471 1479 1480 1482 1484

1491 1

: 1500

```
B 16
15-Sep-1984 23:41:04
14-Sep-1984 12:13:47
CONVSCALL
VO4-000
                   VAX-11 CONVERT COPY_DESC
                                                                                                           VAX-11 Bliss-32 V4.0-742 CCONV.SRCJCONVCALL.B32;1
                             *SBTTL 'COPY_DESC' ROUTINE COPY_DESC ( DESC ) : CL$COPY_DESC =
  BEGIN
                                  LOCAL
                                                          : LONG,
: LONG,
: REF VECTOR [ ,BYTE ],
: REF BLOCK [ ,BYTE ];
                                       BYTES
                                       BUFFER
                                      COPY_DESC
                                  GLOBAL REGISTER
ADDRESS = 1
                                                          : LONG:
                                  LENGTH = STR$ANALYZE_SDESC_R1( .DESC );
                                  ! Allocate a vm for a descriptor and a copy of the users string
                                  BYTES = .LENGTH + 8:
                                  ! Get the address of the descriptor
                                  COPY_DESC = CONV$$GET_VM( .BYTES );
                                  ! The string is just past that
                                  BUFFER = .COPY_DESC + 8;
                                  ! Stuff length
                                  COPY_DESC [ DSC$W_LENGTH ] = .LENGTH;
                                  ! Stuff address
                                  COPY_DESC [ DSC$A_POINTER ] = .BUFFER;
                                  ! Copy the user string
                                  CH$MOVE( .LENGTH, .ADDRESS, .BUFFER );
                                  ! Return address of descriptor
                                  RETURN . COPY_DESC
                                  END:
```

CONVSCALL V04-000	VAX-11 CONVERT					C 16 15-Sep-19 14-Sep-19	84 23:41 84 12:13	:04	VAX-11 Bliss-32 V4.0)-742 332;1
	60	04	5E 56 50 66 A6 61 50	08 A6 50 52 50 52 50 52 56	00 9E 80 00 28 00 8A 05	00016 00019 0001C 00020 00023 00027 0002B 0002E 00032	ADDL 2 MOVAB MOVW MOVL MOVC3 MOVL POPR RSB	8(R6)	POPY DESC BUFFER H. (COPY DESC) R. 4(COPY DESC) H. (ADDRESS), (BUFFER DESC, RO 12,R3,R4,R5,R6>	R)
Routine Size:	51 bytes,	Routine	Base:	_CONV\$CODE	+ 0	71F			-	
1547 1548	1537 1 1538 0 END	ELUDO	1							
				T SUMMARY						
CONV\$OWN CONV\$PLIT CONV\$CODE		Bytes		NOVEC, WRT, NOVEC, NOWRT, NOVEC, NOWRT,	RD RD RD	NOEXE, NOSHR, NOEXE, SHR, EXE, SHR,		REL, REL, REL,	CON, PIC, ALIGN(2) CON, PIC, ALIGN(2) CON, PIC, ALIGN(2)	
		Libra	ry Sta	tistics						
File				Total L	ymbo oade	d Percent	Pages Mappe	d	Processing Time	
_\$255\$DUA28:[_\$255\$DUA28:[SYSLIB]LIB.L32 CONV.SRC]CONVE	1 RT.L32:1		18619 165	114	5 15	1000 17		00:01.9 00:00.2	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: CONVCALL/OBJ=OBJ\$: CONVCALL MSRC\$: CONVCALL/UPDATE=(ENH\$: CONVCALL)

; Size: 1874 code + 208 data bytes ; Run Time: 00:45.7 ; Elapsed Time: 02:14.3 ; Lines/CPU Min: 2020 ; Lexemes/CPU-Min: 31811 ; Memory Used: 297 pages ; Compilation Complete 0064 AH-BT13A-SE

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